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 TI Manufacture of **cement** boards
 IN Yamaguchi, Kyonori; Masuyama, Hisao; Sato, Yosuke
 PA Nichias Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
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 DT Patent
 LA Japanese
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 ICI C04B028-04, C04B014-04, C04B016-02, C04B018-14, C04B024-26, C04B024-38
 CC 58-1 (Cement, Concrete, and Related Building Materials)
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PI	JP 61256956	A2	19861114	JP 1985-97920	19850510
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CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 61256956	ICM	C04B028-04
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	ICI	C04B028-04, C04B014-04, C04B016-02, C04B018-14, C04B024-26, C04B024-38

AB Portland cement, amorphous SiO₂ powder (particle size ≤ 1 μ), wollastonite, and pulp are mixed with a large amount of water to give a slurry, mixed with polyacrylamide and cationic starch coagulation agents, paper-made into thick sheets, and then cured at standard temperature to give **cement** boards. High-strength boards are prepared without using asbestos reinforcement. Thus, aqueous slurry (8% solid) of portland **cement** 62, SiO₂ fume 20, wollastonite 12, and pulp 6 weight% was mixed with 0.03 weight% polyacrylamide and 0.4 weight% **cationic starch**, paper-made into 6 mm thick sheets, and cut into 1450 + 1300 mm sheets, 6 sheets were laminated crosswise, compressed to 30 mm thick by 50 kg/cm² pressure application, cured 1 wk in a plastic bag, and further cured 1 wk out of the plastic bag. Boards having bending strength 210 kg/cm² was manufactured at 84% yield, compared to manufacture of those

having bending strength 200 kg/cm² at 30% yield when free of polyacrylamide.

ST board **cement cationic starch** coagulant;
 polyacrylamide coagulant **cement** board
 IT Pulp, cellulose
 (coagulants for **cement** boards containing)
 IT **Cement**